



PATENT
Q201-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Khalil Amine et al.

Serial No: 10/663,024

Filed: September 15, 2003

For: ELECTROLYTE FOR
ELECTROCHEMICAL CELL

Art Unit: 1745

Examiner: N/A

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450, on

April 7, 2004

Date of Deposit

Kathy Hinckley

Name

4/7/2004
Signature Date

**TRANSMITTAL OF
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

Dear Sirs:

1. The information disclosure statement submitted herewith is being filed within three months of the filing date of the application other than a continued prosecution application, or within three months of the date of entry into the national stage of an international application, or before the mailing date of a first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under §1.114, whichever event occurs last. 37 C.F.R. §1.97(b).
2. The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(b), but *before* the mailing date of a final action under §1.113, or a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, whichever occurs first. A statement specified in §1.97(e) or a fee set forth in §1.17(p) is included. 37 C.F.R. §1.97(c).

§1.97(e) STATEMENT

I, the person signing below, state:

- that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

OR

- that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

OR FEE

- Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c). (\$180.00).
 - Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number ___. A copy of this petition is enclosed.
3. The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(c), but before, or simultaneously with the payment of the issue fee. A statement specified in §1.97(e) and a fee set forth in §1.17(p) are included. 37 C.F.R. §1.97(d).

§1.97(e) STATEMENT

I, the person signing below, state:

- that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

OR

- that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

AND FEE

- Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(d). (\$180.00).
- Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number ___. A copy of this petition is enclosed.

4. The filing of an information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b) [37 C.F.R. § 1.97(h)]. Further, applicants make no admission that all references presented here are prior art in relation to the present application.
5. If it should be determined that for any reason either an insufficient fee or an excessive has been paid, please charge any insufficiency or credit any overpayment necessary to ensure consideration of the information disclosure statement for the above-identified application to Deposit Account No. 50-0921. **A copy of this petition is enclosed.**
6. A list of 171 reference(s) is in the enclosed Form PTO-1449.
 - Pursuant to 37 C.F.R. § 1.98(d), a copy / copies of some of the listed reference(s) is / are not provided since it is / they are of record in parent application Serial No. __ filed __, the benefit of the filing date of which is claimed herein under 35 U.S.C. § 120.

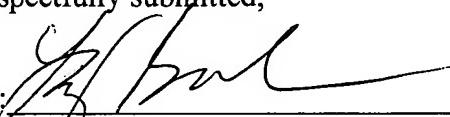
NON-ENGLISH LANGUAGE REFERENCES

- Enclosed is a search report for a counterpart application. The search report Examiner has provided comments on the relevancy of any non-English language references cited in the search report.
- The specification incorporates comments on the relevancy of Non-English language references.
- Set forth below are comments provided by the applicant's home country counsel on the relevancy of non-English language references: N/A

Date: April 7, 2004

Respectfully submitted,

By:


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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
				Application Number	10/663,024
				Filing Date	September 15, 2003
				First Named Inventor	Khalil Amine et al.
				Art Unit	1745
				Examiner Name	N/A
Sheet	1	of	7	Attorney Docket number	Q201-US1

US PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	Number – Kind Code		
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Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/663,024
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	Number - Kind Code		
	US-6,573,009 B1	06-03-2003	Noda et al.
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	US-6,610,109 B2	08-26-2003	Noh
	US-6,653,015 B2	11-25-2003	Yoshida et al.
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	Office	Number					
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JP	57-034661	/	02-25-1982	Hitachi Maxell Ltd	✓		
JP	57-080670	/	05-20-1982	Yuasa Battery Co Ltd	✓		
JP	57-111957	/	07-12-1982	Toshiba Corp	✓		
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JP	59-224072	/A2	12-15-1984	NEC Corp	✓		✓
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JP	60-216461	/	10-29-1985	NEC Corp	✓		✓
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JP	62-209169	/A2	09-14-1987	Sumitomo Electric	✓		✓
JP	63-010466	/	01-18-1988	Sanyo Electric Co Ltd	✓		✓
JP	63-310569	/	12-19-1988	Matsushita Electric Ind Co Ltd	✓		✓
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JP	02-262274	/	10-25-1990	Matsushita Electric Ind Co Ltd	✓		✓
JP	02-291603	/	12-03-1990	Hitachi Maxell Ltd	✓		
JP	03-139566	/	06-13-1991	Toray Dow Corning Silicone Co LTD	✓		✓
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JP	60-052893	/A2	07-31-1992	Mitsubishi Cable	✓		✓
EP	0 525 728	/A1	02-03-1993	Dow Corning Toray Silicone Company , Limited			✓
JP	05-036441	/	02-12-1993	Toray Dow Corning Silicone Co Ltd	✓	✓	✓
JP	05-290616	/	11-05-1993	Mitsubishi Cable Ind Ltd	✓	✓	✓
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EP	0 581 296	/A3	02-02-1994	Dow Corning Toray Silicone Co., Ltd.			✓
JP	07-320782	/	12-08-1995	Sanyo Electric Co Ltd	✓	✓	✓
JP	08-078053	/A2	03-22-1996	Ricoh Co Ltd	✓	✓	✓
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Examiner Signature	Date Considered
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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				<u>Complete if Known</u>		
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Examiner Initials	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	English Abstract	Machine Trans- lation	Entire Docu- ment
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	EP	0 922 049 ✓	B1	02-26-1998	Merck Patent GmbH		
	JP	10-172615 ✓	A2	06-26-1998	Toshiba Battery Co. Ltd.	✓	✓
	EP	0 932 215 ✓	A1	01-25-1999	Sony Corporation		✓
	JP	11-185804 ✓		07-09-1999	Toyama Yakuhin Kogyo KK	✓	✓
	EP	0 796 511 ✓	B1	08-18-1999	SRI International		✓
	JP	11-238523 ✓		08-31-1999	Mitsubishi Paper Mills Ltd		✓
	JP	11-302383 ✓		11-02-1999	Kanegafuchi Chem Ind Co Ltd	✓	✓
	JP	11-302384 ✓	A2	11-02-1999	Kanegafuchi Chem	✓	
	JP	11-306857 ✓	A2	11-05-1999	Kanegafuchi Chem ind Co Ltd	✓	✓
	JP	11-306856 ✓	A2	11-05-1999	Kanegafuchi Chem	✓	
	WO	00/00495 ✓	A1	01-06-2000	Metallgesellschaft Aktiengesellschaft		
	WO	00/08654 ✓		02-17-2000	Sony Corporation		✓
	JP	2000-058123 ✓		02-25-2000	Sony Corp	✓	✓
	WO	00/25323 ✓	A1	05-04-2000	Kaneka Corporation		
	JP	2000-154254 ✓	A2	06-06-2000	Mitsubishi Paper Mills Ltd Nippon Unicar Co Ltd	✓	✓
	EP	1 024 502 ✓	A1	08-02-2000	Sony Corporation		✓
	JP	2000-222939 ✓	A2	08-11-2000	Sony Corp	✓	✓
	JP	2000-277152 ✓	A2	10-06-2000	Hitachi Ltd.	✓	✓
	JP	2001-068115 ✓		03-16-2001	Hitachi Chem Co Ltd	✓	✓
	JP	2001-110455 ✓	A2	04-20-2001	Sony Corp	✓	✓
	EP	0 932 215 ✓	B1	05-16-2001	Sony Corporation		✓
	JP	2001-185165 ✓	A2	07-06-2001	Kyocera Corp	✓	✓
	WO	01/73884 ✓	A1	10-04-2001	NGK Insulators, LTD		✓
	JP	2001-283913 ✓		10-12-2001	Kyocera Corp	✓	✓
	JP	2001-283907 ✓	A2	10-12-2001	NGK Insulators Ltd	✓	✓
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	WO	01/99209 ✓	A2	12-27-2001	Arizona Board of Regents		
	JP	2002-063936 ✓	A2	02-28-2002	Kanegafuchi Chem Ind. Co Ltd	✓	✓
	EP	1 202 374 ✓	A1	05-02-2002	NGK Insulators, LTD		✓
	JP	2002-151150 ✓	A2	05-24-2002	Samsung SDI Co Ltd	✓	✓

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Substitute for form 1449A/PTO				<u>Complete if Known</u>			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/663,024		
Sheet	4	of	7	Filing Date	September 15, 2003		
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	Office	Number	Kind					
	JP	2002-155142 ✓	A2	05-28-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002-298913 ✓	A2	10-11-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002-343440 ✓	A2	11-29-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2003-002974 ✓	A2	01-08-2003	Chisso Corp	✓	✓	✓
	WO	03/083971 ✓	A1	10-09-2003	Oh et al.			✓
	WO	03/083970 ✓	A1	10-09-2003	Oh et al.			✓
	WO	03/083972 ✓	A1	10-09-2003	Amine et al.			✓
	WO	03/090299 ✓	A1	10-30-2003	West et al.			✓
	WO	03/083973 ✓	A1	10-09-2003	West et al.			✓
	WO	03/083974 ✓	A1	10-09-2003	Yoon et al.			✓

OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	M. ARMAND, New Electrode Matérial, Proceedings of the NATO Sponsored Advanced Study Institute on Fast Ion Transport in Solids, Solid State Batteries and Devices, 1972, Belgirate, Italy.
	D. FENTON et al., Complexes of Alkali Metal Ions with Poly(Ethylene Oxide), Polymer, November 1973, 589, 14.
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Examiner Signature	Date Considered
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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
				Application Number	10/663,024
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				Art Unit	1745
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OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
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Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
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	M. FURLANI et al., Time Resolved Luminescence and Vibrational Spectroscopic Studies on Complexes of Poly(Ethylene Oxide) Oligomers and Eu(TFSI) ₃ Salt, 11 th International Conference on Solid State Ionics, 1997, 10 pages.				
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	Z. WANG et al., Thermal, Electrochemical, and Spectroscopic Characterizations of Hyperbranched Polymer Electrolyte, Journal of Electrochemical Society, 1999, 2209-2215, 146(6).				
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	A. REICHE et al., Gel Electrolytes on the Basis of Oligo(Ethylene Glycol) _n Dimethacrylates – Thermal, Mechanical and Electrochemical Properties in Relationship to the Network Structure, Polymer, 2000, 3821-3836, 41.				
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	X. HOU et al., Novel Interpenetrating Polymer Network Electrolytes, Polymer, 2001, 4181-4188, 42.				
	C.F. ROME, The Unique Properties of Silicone at the Service of the Petroleum Industry, Hydrocarbon Asia, 2001, 42-49, ' www.hcasia.safan.com/mag/may-jun01/Tech-Silicone.pdf '.				
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				Application Number	10/663,024
				Filing Date	September 15, 2003
				First Named Inventor	Khalil Amine et al.
				Art Unit	1745
				Examiner Name	N/A
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OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
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